MINERALIUM DEPOSITA

International Journal for Geology, Mineralogy, and Geochemistry of Mineral Deposits

Official Bulletin of the Society for Geology Applied to Mineral Deposits

Volume 16, 1981

Edited by

- G. C. Amstutz-Heidelberg, E. Grip-Boliden, D. D. Klemm-München, G. L. Krol-den Haag,
- G. Kullerud-Lafayette, I. de Magnée-Brüssel, A. Maucherf-München,
- J. Pereira-London, P. Ramdohr-Heidelberg, P. Routhier-Paris, H.-J. Schneider-Berlin

With the Cooperation of

- J. Agard. Orléans
- V. Angelelli, La Plata
- A. Bernard, Nancy
- H. Borchert, Dießen
- J. Bouladon, Neuilly
- F. W. Chuchrow, Moscow
- K. C. Dunham, London
- P. Evrard, Liège
- T. Febrel, Madrid
- N. H. Fisher, Canberra
- P. Haapala, Helsinki
- H. D. Holland, Cambridge, Mass.
- E. Ingerson, Austin
- S. Jankovič, Beograd

- E. Kautzsch, Berlin-Weissensee
- H. King, North Melbourne
- H. J. Koark, Uppsala
- L. Kostelka, Klagenfurt
- J. Kutina, Washington
- L. J. Lawrence, Sydney
- P. Nicolini, Haiti
- H. Nielsen, Göttingen
- C. H. Smith, Ottawa
- R. L. Stanton, Armidale
- W. Uytenbogaardt, Delft
- F. Vokes, Trondheim
 T. Watanabe, Hongo-Bunkyo-ku/Tokyo
- A. Wilke, Berlin

Managing Editors

Prof. Dr. D. D. Klemm, Institut für Allgemeine und Angewandte Geologie der Universität München, Luisenstraße 37, D-8000 München 2

Prof. Dr. H.-J. Schneider, Institut für Angewandte Geologie, Freie Universität Berlin, Wichernstraße 16. D-1000 Berlin 33

Editorial Office

Institut für Allgemeine und Angewandte Geologie der Universität München, Luisenstraße 37, D-8000 München 2



Springer-Verlag Berlin Heidelberg New York

It is a fundamental condition that submitted manuscripts have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations.

Photographic reproduction, microform, or any other reproduction of text, figures or tables from this journal is prohibited without permission obtained from the publishers.

Springer-Verlag/Berlin Heidelberg New York

Printed in Germany - Copyright © by Springer-Verlag Berlin Heidelberg 1981

Contents

Klemm, D. D., Schneider, H.-J., Albert Maucher in memoriam 191

Originals

Amorós, J. L., Lunar, R., Tavira, P., Jarosite: A Silver Bearing Mineral of the Gossan of Rio Tinto (Huelva) and la Union (Cartagena, Spain) 205

Ayora, C., Cardellach, E., Phillips, R., Mineralisation from Vall des Ribes Area (Eastern

Pyrenees, Spain) 195

Bergholz, J., Kubanek, F., Zur Spurenelementverteilung in pegmatitischen K,Na-Feldspäten als Prospektionshilfe am Beispiel Tsaobismund/SWA 31

Bernasconi, A., The Marinkas Kwela Alkali-Granite Intrusive, a Probable Porphyry Molybdenum System of Cambrian Age,

Namibia 447

Brookins, D. G., Primary Uranophane from the Ambrosia Lake Uranium District,

Grants Mineral Belt, USA 3

Buchanan, L. J., de Vivo, B., Kramer, A. K., Lima, A., Fluid Inclusion Study of the Fiumarella Barite Deposit (Catanzaro - S. Italy) 215

Cathelineau, M., Les Gisements Uraniferes de la Presqu'ile Guerandaise (Sud Bretagne); Approche Structurale et Metallogeni-

Cortecci, G., Lombardi, G., Reyes, E., Turi, B., A Sulfur Isotopic Study of Alunites from Latium and Tuscany, Central Italy 147

Dahanayake, K., Ranasinghe, A. P., Source Rocks of Gem Minerals. A Case Study from Sri Lanka 103

O'Driscoll, E. S. T., Structural Corridors in Landsat Lineament Interpretation 85

Finlow-Bates, T., Stumpfl, E. F., The Behaviour of So-Called Immobile Elements in Hydrothermally Altered Rocks Associated with Volcanogenic Submarine-Exhalative Ore Deposits 319

Fuchs, Y., Lang-Villemaire, C., Sur Quelques Concentrations Plombo-Zinciferes du Devonien Inferieur du Massif Schisteux

Rhenan 339

Halbach, P., Scherhag, C., Hebisch, U., Marchig, V., Geochemical and Mineralogical Control of Different Genetic Types of Deep-Sea Nodules from the Pacific Ocean 59

Larter, R. C. L., Boyce, A. J., Russell, M. J., Hydrothermal Pyrite Chimneys from the Ballynoe Baryte Deposit, Silvermines, County Tipperary, Ireland 309

Leblanc, M., Cassard, D., Juteau, T., Cristallisation et Deformation des Orbicules de

Chromite 269

Leitch, C. H. B., Mineralogy and Textures of the Lahanos and Kızılkaya Massive Sulphide Deposits, Northeastern Turkey, and their Similarity to Kuroko Ores 241

Macfarlane, N. D., Mossman, D. J., The Opaque Minerals and Economic Geology of the Nemeiben Ultramafic Complex, Sas-

katchewan, Canada 409

Macquar, J. Cl., Lagny, Ph., Minéralisations Pb-Zn «Sous Inconformité» des Series de Plates-Formes Carbonatées. Exemple du Gisement de Trèves (Gard, France). Relations entre Dolomitisations, Dissolutions et Minéralisations 283

Maquet, M., Cervelle, B. D., Gouet, G., Signatures of Ni2+ and Fe3+ in the Optical Spectra of Limonitic Ore from New Caledonia: Application to the Determination of

the Nickel Content 357

Muir, M. D., The Microfossils from the Proterozoic Urquhart Shale, Mount Isa, Queensland, and their Significance in Relation to the Depositional Environment, Diagenesis, and Mineralisation 51

Oružinský, V., Kříbek, B., Extractable Organic Compounds Associated with the Metamorphosed Stratiform Cu-Deposit of Tisová

(Czechoslovakia) 437

Pedersen, F. D., Polyphase Deformation of the Massive Sulphide Ore of the Black Angel Mine, Central West Greenland 157

- Perseil, E. A., Jehanno C., Sur les Caractères Minéralogiques et Géochimiques des Nodules Polymétalliques du Bassin Indien Central 391
- Richards, J. R., Fletcher, I. R., Blockley, J. G., Pilbara Galenas: Precise Isotopic Assay of the Oldest Australian Leads; Model Ages and Growth-Curve Implications 7
- Russell, M. J., Solomon, M., Walshe J. L., The Genesis of Sediment-Hosted, Exhalative Zinc + Lead Deposits 113
- Ryall, W. R., The Forms of Mercury in some Australian Stratiform Pb-Zn-Ag Deposits

of Different Regional Metamorphic Grades 425

Shimizu, M., Shimazaki, H., Application of the Sphalerite Geobarometer to Some

Skarn-Type Ore Deposits 45

Sundblad, K., Chemical Evidence for, and Implication of, a Primary FeS Phase in the Ankarvattnet Zn-Cu-Pb Massive Sulphide Deposits, Central Swedish Caledonides 129

Taylor, R. P., Isotope Geology of the Bakircay Porphyry Copper Prospect, Northern Tur-

key 375

Wassef, S. N., Distribution and Properties of Placer Ilmenite in East Rosetta Beach Sands, Egypt 259

Short Notes

Boissavy-Vinau, M., Roger, G., Reply to B. Lehmann's Discussion 332

Dalgarno, C. R., Coats, R. P., Preiss, W. V., A Discussion of the Paper by R. A. Rayner and N. J. Rowlands "Stratiform Copper in the Late Proterozoic Boorloo Delta, South Australia" 185

Lehmann, B., A Discussion of the Paper by M. Boissavy-Vinau and G. Roger "The TiO₂/ Ta Ratio as an Indicator of the Degree of Differentation of Tin Granites" 329

Maiden, K. J., A Discussion of the Paper by I. R. Plimer "Exhalative Sn and W Deposits Associated with Mafic Volcanism as Precursors to Sn and W Deposits Associated with Granites" 455

Plimer, I. R., Reply to K. J. Maiden's Discussion 457

Rayner, R. A., Rowlands, N. J., Reply to C. R. Dalgarno's Discussion 187

Sabouraud, Ch., Reponse aux observations de J. Cl. Touray et A. Ziserman 181

Touray, J. C., Ziserman, A., Observations sur la Note «Les Inclusions Fluides, Témoins et

Faux-Témoins des Conditions de Dépôt. Quelques Exemples Pris dans les Minéralisations de Pb, Zn, Ba, F du Sud du Massif Central Français» de C. Sabouraud, J. C. Marquar et H. Rovier, Minéralium Deposita, 211-230 (1980) 177

Book Reviews

Der Mineraliensammler – Über den Aufbau von Sammlungen und was man davon wissen sollte (Ref. D. D. Klemm) 189

Proceedings of the First International Tungsten Symposium, Stockholm, September 5-7, 1979 (Ref. R. Höll) 335

Geochemistry in Mineral Exploration (Ref. D. D. Klemm) 335

Methodes de la Gitologie (Ensemble et Variances) (Ref. G. C. Amstutz) 459

The Geosciences in Canada, Part I. (Ref. E. F. Stumpfl) 460

Hydrologie (Erträge der Forschung, Band 143). (Ref. W.-D. Grimm) 461

Hydrologische Methoden (Hochschultext). (Ref. W.-D. Grimm) 462

Hydrogeologie der nichtverkarstungsfähigsten Festgesteine. (Ref. W.-D. Grimm) 463

Isotopenmethoden in der Hydrologie. (Ref. W.-D. Grimm) 463

Gmelin Handbuch der anorganischen Chemie. (Ref. W.-D. Grimm) 464

Announcements

336, 465

Society News

190, 338, 466

